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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,808	10/19/2004	David Modrie	BE 020012	6526
24737	7590 01/10/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			HOQUE, NASRIN	
			ART UNIT	PAPER NUMBER
			2631	
		DATE MAILED: 01/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/511,808	MODRIE ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Nasrin Hoque	2631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Oc	1) Responsive to communication(s) filed on <u>19 October 2004</u> .					
2a) This action is FINAL . 2b) This	This action is FINAL. 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-8</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>19 October 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 10/19/2004. 6) Other:						

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DETAILED ACTION

1. Claims 1- 8 are pending in this application.

Drawings

2. Drawing is objected for following:

FIG. 1: "a(t)" should be labeled as -a(k)-- as specified in page 4, line 4.

Appropriate correction is required.

Specification

3. Specification is objected for following:

It is suggested to replace "US patent no" (page 1, line 16) with --US patent no--.

Appropriate correction is required.

Allowable Subject Matter

4. The following is examiner's statement of reason for allowance for claims 1 and 8 (i.e. claims 1-8).

The closest cited references (Patent #: 6,975,689 and 6,912,258) discloses following:

For first limitation, Patent #: 6,975,689 show that an adaptive equalizer (6,975,689: Fig 4, block 13, column 15) receives input from user data (equivalent to received signal) where the adaptive equalizer is operating at clock rate (6,975,689: Fig 7, column 18, lines 41-42).

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For second limitation, Patent #: 6,975,689 further show that the equalizer is being controlled via coefficients which is part of control loop (6,975,689: Fig 4, blocks 14, 23-29, column 15). Patent #: 6,912,258 also disclose that a sampling rate converter forwards a signal which is processed by an error circuit equalizer via timing recovery loop (6,912,258: Fig 4A, blocks 401, 407, 200, 402, column 7, lines 56-67).

For third limitation, Patent #: 6,975,689 further shows that the equalizer is being controlled via coefficients which is part of control loop (6,975,689: Fig 4, blocks 14, 23-29, column 15). Patent #: 6,912,258 discloses that two loops are handled i.e. a sampling rate converter forwards a signal which is processed by an error circuit equalizer (6,912,258: Fig 4A, blocks 401, 407, 200, 402, column 7, lines 56-67) via timing recovery loop and an equalizer is being monitored via control circuit (6,912,258: Fig 4B, blocks 401, 408, 412, 402, column 8, lines 5-16).

For fourth limitation, Patent #: 6,912,258 disclose that orthogonal functionality can be supported (6,912,258: Fig 4B, column 8, lines 5-7). However, the claims are allowable because the above references (Patent #: 6,975,689 and 6,912,258) fail to teach "an error generator (21) for delivering, for said input sequence (x_k), the sequence (a_k) and an error sequence (e_k) to be used <u>in both loops</u>," per claimed (Fig 4), and "for delivering a condition for the adaptive equalizer (EQ) to fulfill in order to decrease interference between equalizer's adaptation loop and timing recovery circuit" per claimed (Fig 4).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and to avoid processing delays should be preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. This application is in condition for allowance except for the following formal matters:

The objections as stated in paragraphs 1 and 2 of the office this office action.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nasrin Hoque whose telephone number is 571-272-5948. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tesfaldet Bocure, can be reached on 571-272-3015. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PA6IR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nasmin Hagus Nasrin Hoque Examiner Art Unit 2631

TESFALOFT BOCURE